

Table 3: Crash Frequency and Severity in Warren County					
Total Crashes	Average Severity				
61	6.28				
Severity at High Accident Intersections					
Road A	Road B	Severity Index	No. of Crashes	Total No. Injuries	Estimated Property Damage
I-85	SR 1224	10.48	8	16	\$70,110
I-85	US 1	8.54	13	34	\$67,700
SR 1636	SR 1640	8.4	5	5	\$23,000
US 158	US 158	5.44	5	14	\$57,950
US 1	SR 1210	4.7	6	6	\$60,895
I-85	SR 1210	4.7	6	8	\$58,100
US 1	SR 1107	4.17	7	10	\$31,129
US 158	SR 1305	3.47	6	14	\$29,300
US 1	SR 1237	2.48	5	8	\$11,900
Totals			61	115	\$410,084

Source: NC Division of Motor Vehicles, 2008

### 3.6 Existing and Projected Capacity Deficiencies

Roadway capacity deficiencies occur when the travel demand volume of a roadway exceeds the capacity of that roadway. Travel demand volume is the total number of vehicles that wish to use a roadway on a daily basis. The existing volumes for the County are based upon traffic count data taken annually by the NCDOT Traffic Surveys Group. Volume to capacity ratios (V/C) have been calculated for the 2004 base year and are shown in **Figure 4**.

Historic trend analysis was utilized to estimate 2035 volumes. Other factors such as historic and anticipated population, economic growth patterns, and land use trends were utilized for the traffic projections. The projected 2035 travel demand volume to capacity ratios, based on the historic trend projections are shown in **Figure 5**.

Capacity is the maximum number of vehicles that can pass over a given section of roadway during a given time period under prevailing roadway and traffic conditions. Many factors contribute to the capacity of a roadway, including:

- ❑ Geometry of the road, including number of lanes, horizontal and vertical alignment, and proximity of perceived obstructions to safe travel along the road;
- ❑ Typical users of the road, such as commuters, recreational travelers, and truck traffic;
- ❑ Access control, including streets and driveways, or lack thereof, along the roadway;
- ❑ Development of the road, including residential, commercial, and industrial developments;
- ❑ Number of traffic signals along the route;